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 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
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 10/050,586
 01/18/2002
 Illong Qiu
 1089.0350001
 9055

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STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005

EXAMPLE

DOUGHERTY, THOMAS M

ART UNIT PAPER NUMBER

2834

DATE MAILED: 07/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	L
Office Action Summary	10/050,586	QIU ET AL.	
	Examiner	Art Unit	
	Thomas M. Dougherty	2834	
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	th the correspond nce addr	ess
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicate. If the period for reply specified above in less than think (30) days of the provision of 37 or an interest of the provision of 37 or an interest of the provision of	ION. FR 1.136(a). In no event, however, may a rion, a reply within the statutory minimum of thin period will apply and will expire SIX (6) MON statute, cause the application to become AF	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this community. CS 1330 (25 LS CS 133)	nunication.
 Responsive to communication(s) filed or 	n <u>27 March 2003</u> .		
2a) This action is FINAL. 2b)	This action is non-final.		
Since this application is in condition for a closed in accordance with the practice undependent of Claims	allowance except for formal ma inder <i>Ex parte Quayle</i> , 1935 C.I	tters, prosecution as to the eD. 11, 453 O.G. 213.	merits is
4)⊠ Claim(s) <u>19,20 and 27-34</u> is/are pending	in the poplication		
4a) Of the above claim(s) 27-29 is/are wit			
5) Claim(s) 19,20 and 30-34 is/are allowed.	ndrawii from consideration.		
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement		
Application Papers			
9)☐ The specification is objected to by the Exa	aminer.		
10)⊠ The drawing(s) filed on 18 January 2002 is	s/are: a)⊠ accepted or b)□ obje	cted to by the Examiner.	
Applicant may not request that any objection	to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
11) The proposed drawing correction filed on		isapproved by the Examiner.	
If approved, corrected drawings are required			
12) ☐ The oath or declaration is objected to by the	ne Examiner.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for for	oreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
 Certified copies of the priority docu 	ments have been received.		
Certified copies of the priority docu	ments have been received in A	pplication No. <u>09/534,573</u> .	
 Copies of the certified copies of the application from the Internation See the attached detailed Office action for 	al Bureau (PCT Rule 17.2(a)).		age
14) Acknowledgment is made of a claim for do			oplication)
a) The translation of the foreign languages 15) Acknowledgment is made of a claim for do	e provisional application has be	een received.	
Attachment(s)	priority andor 55 0.0.0.	33 .=3 GRAFOT 121.	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94 Notice of Draftsperson's Patent Drawing Review (PTO-94 Notice of Draftsperson's Patent (Is) (PTO-1449) Paper N	8) 5) Notice of I	Summary (PTO-413) Paper No(s). nformal Patent Application (PTO-1	

Application/Control Number: 10/050,586

Art Unit: 2834

Allowable Subject Matter

Claims 19, 20 and 30-34 are allowed.

The following is an examiner's statement of reasons for allowance; the prior art fails to show a method for manufacturing a piezoelectric element having a piezoelectric material with a perovskite crystal structure expressed by the formula ABO3 in which the symbol A represents at least an element "a", comprising the steps of forming a lower electrode; on that electrode forming a piezoelectric material having a perovskite crystal structure expressed by ABO₃ in which A represents at least an element "a" by, firstly producing an oxide in an amorphous state containing an element "a' " and subjecting the oxide to a hydrothermal process using an aqueous solution containing the element "a' " thereby crystallizing the oxide, wherein the oxide produced firstly is a piezoelectric material having a perovskite crystal structure expressed by the formula ABO3 in which the symbol A represents at least an element "a' "; and secondly, producing a piezoelectric material by subjecting the oxide produced in the first step to a hydrothermal process using an aqueous solution containing the element "a", so as to increase the amount of the element "a" contained in the piezoelectric material due to its substitution for element "a' " contained in the oxide produced in the first step; and finally forming an upper electrode over the piezoelectric material that has been formed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

This application is in condition for allowance except for the following formal matters:

Cancellation of claims 27-29, which are the non-elected claims, is required so that the case can issue.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Direct inquiry concerning this action to Examiner Dougherty at (703) 308-1628.

July 15, 2003

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Thomas M. Coughert